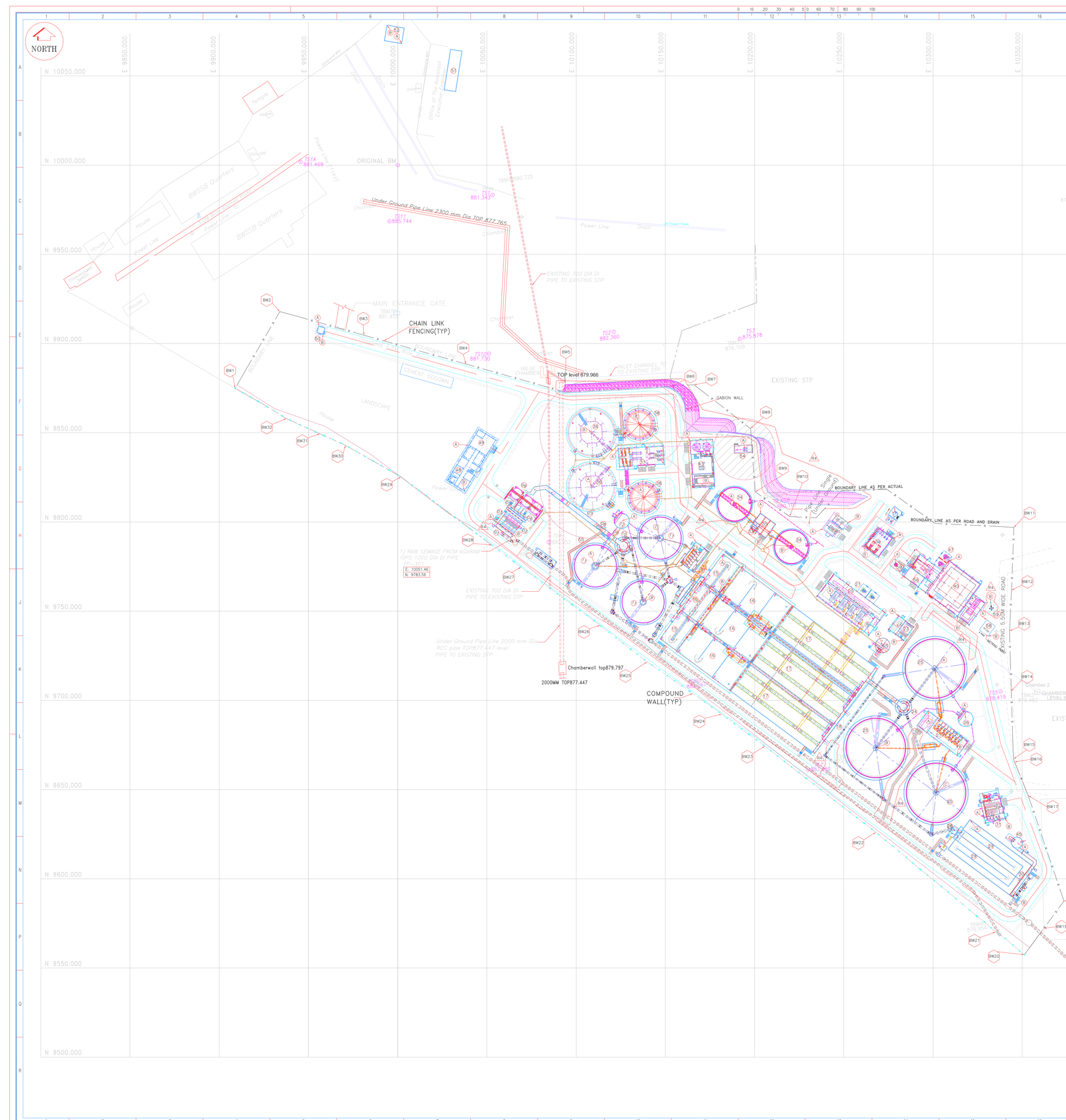
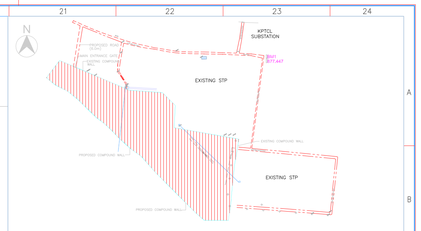


S.No.	BOUNDARY WALL CO-ORDINATE (EXISTING) EASTING	NORTHING
BW1	9908.837	9874.958
BW2	9933.934	9917.898
BW3	9981.085	9904.668
BW4	10038.249	9888.498
BW5	10093.793	9872.787
BW6	10153.663	9876.188
BW7	10166.029	9876.89
BW8	10197.786	9852.319
BW9	10201.308	9853.905
BW10	10219.665	9863.032
BW11	10345.32	9796.911
BW12	10344.028	9761.78
BW13	10342.885	9738.958
BW14	10343.884	9705.269
BW15	10345.174	9667.168
BW16	10345.72	9665.508

S.No.	BOUNDARY WALL CO-ORDINATE (PROPOSED) EASTING	NORTHING
BW17	10353.361	9646.669
BW18	10373.379	9587.485
BW19	10362.726	9572.240
BW20	10351.206	9557.446
BW21	10335.194	9570.131
BW22	10267.987	9626.033
BW23	10205.770	9674.324
BW24	10181.591	9692.280
BW25	10139.779	9721.652
BW26	10113.492	9742.044
BW27	10069.085	9774.664
BW28	10052.715	9787.093
BW29	10001.843	9825.263
BW30	9970.784	9842.969
BW31	9956.429	9849.435
BW32	9937.608	9857.951



KEY PLAN

LIST OF UNITS

S.No.	DESCRIPTION	SIZE	QTY	CO-ORDINATES A	B	C	REMARKS
01	MEDIUM SCREEN INFLUENT CHANNEL	2.0x10.4x1.50 LD+0.5FB	1	E:10056.05 N:9799.20	E:10063.20 N:9791.39		
02	MEDIUM SCREEN CHANNEL	9.1x1.5x1.37 LD+0.5FB	1				
03	MEDIUM SCREEN BYPASS CHANNEL	9.1x2.0x1.39 LD+0.5FB	1				
04	GRIT BASIN DISTRIBUTION CHANNEL / MEDIUM SCREEN EFFLUENT CHANNEL	2.125 x 12.5 x 0.8 LD	1				
05	GRIT BASIN	5.9x5.9x1.12 SWD+0.5FB	3				
06	GRIT BASIN EFFLUENT CHANNEL	–	1				
07	PARSHALL FLUME UPSTREAM CHANNEL	2.0M WIDE x 1.0 LD	1				
08	PARSHALL FLUME	3.70 x 0.65	1				
09	PARSHALL FLUME DOWMSTREAM CHANNEL	2.0M WIDE x 0.75 LD	1				
10	PRIMARY CLARIFIER DISTRIBUTION STRUCTURE	⌀4.5 x 2.16 LD	1				
11	PRIMARY CLARIFIER	25.5 DIA.x3.6 SWD+0.5FB	3	E:10110.65 N:9775.18	E:10137.54 N:9755.19	E:10146.86 N:9791.00	
12	PRIMARY SCUM PIT	8.2 DIA.x2.0 LD+1.55FB	1	E:10125.55 N:9800.60			
13	PRIMARY SLUDGE PUMPING STATION	14.0 x 9.0 x 8.1	1	E:10167.08 N:9788.55	E:10165.95 N:9771.95		
14	AERATION BASIN INFLUENT CHANNEL						
15	AERATION BASIN (ANAEROBIC ZONE)	11.10x19.15x6.2 LD+0.6FB	3	E:10182.34 N:9781.85	E:10179.83 N:9759.86		
16	AERATION BASIN (ANOXIC ZONE)	36.55x19.15x6.1 LD+0.6FB	3				
17	AERATION BASIN (AEROBIC ZONE)	57.30x19.15x6.0 LD+0.6FB	3				
18	AERATION BASIN EFFLUENT CHANNEL	2.0 M WIDE	1				
19	PROCESS AIR BLOWER ROOM	36.0 x 10.0 x 10.0	1	E:10241.28 N:9766.48	E:10264.21 N:9736.97		
20	ELECTRICAL PANEL ROOM	36.0 x 5.0 x 5.0	1				
21	TRANSFORMER YARD FOR PROCESS AIR BLOWER BUILDING	11.43 x 5.57	1				
22	CHEMICAL BUILDING – FIRST FLOOR	10.0 x 9.0 x 5.0	1	E:10280.77 N:9747.10	E:10283.42 N:9733.90		
23	CHEMICAL BUILDING – GROUND FLOOR	10.0 x 9.0 x 5.5	–				
24	SECONDARY CLARIFIER DISTRIBUTION STRUCTURE	⌀3.9 x 3.0 LD	1				
25	SECONDARY CLARIFIER	35.8 x 3.8 SWD+0.5FB	3	E:10301.04 N:9717.80	E:10267.94 N:9823.50	E:10301.72 N:9848.19	
26	SECONDARY SCUM PIT	8.2 DIA. x 2.0 LD+1.85FB	1	E:10318.08 N:9689.55			
27	RAS PUMPING STATION	28.0 x 10.0 x 9.0	1	E:10297.20 N:9693.89	E:10313.71 N:9669.15		
28	CHLORINE CONTACT TANK INLET CHAMBER	3.75x3.0x3.0 LD+0.5FB	1				
29	CHLORINE CONTACT TANK	42.67x10.0x3.2 LD+0.5FB	2	E:10320.82 N:9632.92	E:10342.92 N:9591.13		
30	CHLORINATOR ROOM	3.0 x 11.0 x 5.0	1	E:10328.86 N:9634.38	E:10340.25 N:9633.91		
31	CHLORINE TONNER ROOM	8.0 x 11.0 x 5.0	1				
32	GRAVITY THICKNER INLET DISTRIBUTION CHAMBER	3.50 x 3.25 x 2.0 LD	1				
33	GRAVITY SLUDGE THICKENER	18.9 DIA.x4.5 SWD+0.5FB	2	E:10188.75 N:9809.93	E:10220.70 N:9786.03		
34	THICKENED SLUDGE PUMPING STATION	10.0 x 9.0 x 6.2	1	E:10204.14 N:9804.56	E:10184.11 N:9791.40		
35	ANAEROBIC DIGESTER	25.3 DIA.x10.0 LD+1.0FB	2	E:10108.60 N:9819.69	E:10108.53 N:9850.21		
36	DIGESTER BUILDING & CENTRIFUGE FEED PUMPING STATION (GROUND FLOOR)	25.0 x 10.0 x 5.5	1	E:10123.55 N:9841.00	E:10149.10 N:9832.51		2 STOREY BUILDING
	(FIRST FLOOR)	14.825 x 10.0 x 6.0	1				
37	SLUDGE /BIO GAS STORAGE TANK	14.2 DIA.x8.0 LD+1.0FB	2	E:10137.84 N:9813.68	E:10135.40 N:9854.75		
38	HOT WATER GENERATOR BUILDING	13.0 x 10.0 x 5.5	1	E:10277.18 N:9772.81	E:10261.37 N:9796.44		
39	SUBSTATION FOR STP	22.0 x 22.0 x 4.5	1	E:10303.13 N:9778.21	E:10313.67 N:9747.43		
40	DG ROOM	15.0 x 8.0 x 6.0	–				
41	–	–	–	–	–		
42	CENTRIFUGE BUILDING (GROUND FLOOR)	26.0 x 12.0 x 11.0/8.0	1	E:10163.99 N:9845.18	E:10177.51 N:9819.95		2 STOREY BUILDING
	(FIRST FLOOR)	11.0 x 12.0 x 6.0	1				
43	–	–	–	–	–		
44	PLANT WATER PUMPING STATION & WETWELL	5.95 DIA.x2.48 LD+2.22FB	1	E:10347.05 N:9820.43			
45	NOT USED	–					
46	TRANSFORMER (2 NOs.) YARD(STP)	9.53 x 5.55	1				
47	ADMINISTARTIVE CUM LABORATORY & SCADA BUILDING	23.03 x 11.0 x 3.6	1	E:10040.08 N:9842.92	E:10037.37 N:9817.55		2 STOREY BUILDING
48	MAINTANENCE WORKSHOP	10.0 x 11.0 x 4.5	1				
49	GUARD ROOM	3.5 x 3.5 x 3.0	1	E:9955.79 N:9909.62	E:9958.21 N:9905.30		
50	VATECH SITE OFFICE	22.69 x 6.23 x 3.0	1				
51	EMPLOYER OFFICE	8.6 x 10.0 x 3.0	1	E:10002.14 N:10068.25	E:9994.10 N:10078.32		
52	GAS SCRUBBER	–	1	E:10038.44 N:9784.60	E:10052.26 N:9799.52		
53	GAS FLARE AREA	–	1	E:10154.60 N:9840.61			
54	PLANT DRAIN SUMP	8.00Dx2.0 LD+5.85FB	1	E:10077.74 N:9730.76			
55	GAS ENGINE ROOM	15.0 x 15.0 x 6.0	1	E:10329.15 N:9778.21	E:10313.67 N:9747.43		
56	POTABLE WATER OVERHEAD TANK ABOVE CHLORINE TONNER ROOM	30 Cu.m	1				
57	SPACE FOR 11 KV TWO POLE STRUCTURE	7.0 x 6.0	1	E:10330.13 N:9745.16	E:10335.77 N:9735.96		
58	CHIMNEY	⌀1800	1	E:10279.18 N:9778.00	E:10330.74 N:9751.62		

NOTES:–

1) ALL DIMENSIONS ARE IN MM AND UNIT SIZES & LEVELS ARE IN METERS
2) DIRECTION OF NORTH: MAGNETIC
3) ALL COORDINATION POINTS SHOWN ARE INSIDE / CENTRE ONLY
4) THE TREATED SEWAGE DISPOSAL PIPE WILL BE SHOWN IN THE SEPARATE DRAWING
5) R.L. OF BM/ NORTH & EAST CORDINATION TRANSFERRED FROM NEAR ADMIN. BUILDING.
   NORTH : 10000.00 M
   EAST : 10000.00 M
   R.L. : 881.895 M
6) REFER LANDSCAPING DWG NO: 10P37-C0011-301
7) REFER ROAD & DRAIN DWG NO: 10P37-C0002-301
8) REFER COMPOUND WALL & GATE DWG NO: 10P37-C0005-338
9) FGL = 879.00 (ADMIN BUILDING) TO FGL 881.25 (CCT)
R4 10) REFER OUTFALL FOR K & C VALLEY DWG : 10P37-C0005-315

LINE LEGEND

PROPOSED UNITS
PROPOSED 5.5 M WIDE ROAD
EXISTING ROAD
SEWAGE PIPE
SLUDGE PIPE
SUPERNATANT PIPE
PEDESTRAIN PATH WAY 1.2M WIDE
FENCING LINE
HAZARDOUS AREA
COMPOUND WALL

ABBREVIATIONS

(1) RL = REDUCE LEVEL
(2) LD = LIQUID DEPTH
(3) S.W.D = SIDE WATER DEPTH
(4) F.B = FREE BOARD
(5) B.W = BOUNDARY WALL
(6) T.S = TRAVERSE POINT
(7) T.B.M = TEMPORARY BENCH MARK
(8) B.M = BENCH MARK

NJS–MM–TCE/BWSSB
DRAWING/DOCUMENT REVIEW STATUS

Date of Receipt: .....

- ☐ A Approved, manufacture/construction may commence.
- ☐ B Acceptable subject to changes indicated. Resubmit for approval but manufacture/construction may commence.
- ☐ C Amend as comments indicated and resubmit for approval.
- ☐ D Comments noted in letter/memo attached to approval,Transmittal Nr. ..... dated ..... Amend as comments indicated and resubmit for approval.
- ☐ E Amend as comments indicated and resubmit for record.
- ☐ F Comments noted in letter/memo attached to forwarding Transmittal Nr. ..... dated ..... Amend as comments indicated and resubmit for record.
- ☐ G Drawings of this category is for information and hence not required to be approved. Approval of drawings/documents does not absolve Contractor/vendor from any responsibilities for their accuracy or for the design, performance and safety of the plant/works or any other obligations under the contract and Indian Statutory laws nor does it limit the employer's right under the Contract.

For NJS_MM_TCE Verified By ..... Date .....
For BWSSB Reviewed By ..... Date .....
Approved By Chief Engineer (Kaveri) ..... Date .....

PROJECT	BANGALORE WATER SUPPLY AND SEWARAGE PROJECT(II) CONTRACT S1c: SEWAGE TREATMENT PLANT AT K&C VALLEY
CLIENT	BANGALORE WATER SUPPLY AND SEWERAGE BOARD
CONSULTANT	NIPPON JOGESUIDO SEKKEI Co. LTD. MOTT MACDONALD LTD. TATA CONSULTING ENGINEERS LTD. INDIA
TITLE	PLANT LAYOUT K&C VALLEY STP - 60 MLD
DWG SIZE	A0

	Name	Date
DRAWN	KM	07.02.13
CHECKED	CSK	07.02.13
APPROVED	TCBM	07.02.13

WABAG
VA TECH WABAG

Scale 1:750

Dwg No: 10P37-D0001-301

Rev. 4

REV.	PROCESS	CIVIL	MECH	ELEC.	INST.	PIPING	DESCRIPTION	DATE	DRAWN	CHKD.	APPD.
4	NL	DBD	CV	GV	AN	NV	REVISED AS PER CLOUD MARKED	19.08.16	VR	NV	TCB
3	NL	DBD	CV	GV	AN	NV	REVISED AS PER CLOUD MARKED	16.10.15	VR	NV	TCB
2	NL	VRM	SKS/UK	CV	AN	SPM	REVISED AS PER COMMENT	27.05.13	GNR	CSK	TCBM
1	NL	SV	UK	GV	AN	SKS	REVISED AS PER COMMENT	13.03.13	KM	CSK	TCBM
0	NL	SV	UK	GV	AN	SKS	ISSUED FOR INFORMATION	07.02.13	KM	CSK	TCBM

REVISION

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